**PLATINUM-GROUP METALS STATISTICS[1]**
**U.S. GEOLOGICAL SURVEY**
**[All values in metric tons (t) PGM content unless otherwise noted]**
**Last modification: October 15, 2012**

| Year | Primary production | Secondary production | Secondary production toll-refined | Imports | Exports | Government stocks | Industry stocks | Reported consumption | Apparent consumption | Unit value ($/t) | Unit value (98$/t) | World production |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1900 | 0.0124 | NA | NA | NA | NA | NA | NA | NA | 2.56 | 201,000 | 3,900,000 | 6.62 |
| 1901 | 0.0438 | NA | NA | NA | NA | NA | NA | NA | 2.65 | 629,000 | 12,000,000 | 9.85 |
| 1902 | 0.0029 | NA | NA | 2.74 | NA | NA | NA | NA | 2.74 | 725,000 | 14,000,000 | 9.33 |
| 1903 | 0.0034 | NA | NA | 2.89 | NA | NA | NA | NA | 2.89 | 712,000 | 13,000,000 | 7.03 |
| 1904 | 0.0062 | NA | NA | NA | NA | NA | NA | NA | 2.91 | 669,000 | 12,000,000 | 9.03 |
| 1905 | 0.0099 | NA | NA | 2.92 | NA | NA | NA | NA | 2.93 | 744,000 | 14,000,000 | 6.24 |
| 1906 | 0.0448 | NA | NA | 4.29 | NA | NA | NA | NA | 4.33 | 883,000 | 16,000,000 | 6.59 |
| 1907 | 0.0111 | NA | NA | 2.31 | NA | NA | NA | NA | 2.32 | 1,160,000 | 20,000,000 | 9.65 |
| 1908 | 0.0233 | NA | NA | 1.58 | NA | NA | NA | NA | 1.60 | 778,000 | 14,000,000 | 8.00 |
| 1909 | 0.0198 | NA | NA | 3.70 | NA | NA | NA | NA | 3.72 | 802,000 | 15,000,000 | 8.45 |
| 1910 | 0.0240 | NA | NA | 3.81 | NA | NA | NA | NA | 3.83 | 960,000 | 17,000,000 | 8.89 |
| 1911 | 0.0292 | NA | NA | 3.87 | NA | NA | NA | NA | 3.90 | 1,260,000 | 22,000,000 | 9.74 |
| 1912 | 0.0313 | NA | NA | 3.41 | NA | NA | NA | NA | 3.44 | 1,320,000 | 22,000,000 | 9.77 |
| 1913 | 0.0322 | 1.27 | NA | 3.67 | NA | NA | NA | NA | 4.97 | 1,370,000 | 22,600,000 | 8.31 |
| 1914 | 0.0778 | 1.33 | NA | 2.33 | NA | NA | NA | NA | 3.74 | 1,250,000 | 20,400,000 | 8.11 |
| 1915 | 0.0479 | 1.37 | NA | 2.14 | NA | NA | NA | NA | 3.56 | 1,290,000 | 20,800,000 | 4.45 |
| 1916 | 0.0989 | 1.49 | NA | 1.98 | NA | NA | NA | NA | 3.57 | 1,870,000 | 28,000,000 | 2.80 |
| 1917 | 0.3330 | 2.25 | NA | 1.11 | NA | NA | NA | NA | 3.69 | 2,660,000 | 33,900,000 | 2.59 |
| 1918 | 0.2300 | 1.42 | NA | 1.77 | NA | NA | 2.10 | 3.58 | 3.42 | 2,930,000 | 31,600,000 | 1.96 |
| 1919 | 0.3657 | 1.91 | NA | 2.12 | NA | NA | 1.35 | 4.81 | 5.20 | 3,190,000 | 30,100,000 | 2.11 |
| 1920 | 0.4120 | 1.80 | NA | 3.13 | NA | NA | 2.11 | 4.39 | 4.54 | 3,390,000 | 27,600,000 | 2.30 |
| 1921 | 0.1490 | 1.43 | NA | 2.44 | 0.016 | NA | 2.10 | 5.48 | 4.00 | 2,220,000 | 20,200,000 | 1.84 |
| 1922 | 0.1050 | 1.45 | NA | 3.42 | 0.040 | NA | 2.36 | 5.69 | 4.64 | 2,630,000 | 25,500,000 | 2.17 |
| 1923 | 0.1050 | 1.49 | NA | 3.32 | 0.054 | NA | 2.20 | 5.93 | 5.06 | 3,160,000 | 30,100,000 | 2.56 |
| 1924 | 0.2260 | 1.69 | NA | 3.46 | 0.222 | NA | 2.32 | 5.35 | 5.05 | 3,180,000 | 30,300,000 | 3.56 |
| 1925 | 0.3490 | 1.35 | NA | 3.91 | 0.615 | NA | 2.46 | 5.26 | 4.89 | 3,380,000 | 31,600,000 | 3.23 |
| 1926 | 0.3470 | 1.44 | NA | 4.19 | 0.419 | NA | 3.28 | 4.60 | 4.76 | 3,210,000 | 29,400,000 | 4.42 |
| 1927 | 0.2540 | 1.65 | NA | 4.63 | 0.668 | NA | 3.17 | 4.66 | 5.97 | 2,680,000 | 25,000,000 | 4.64 |
| 1928 | 0.2980 | 1.74 | NA | 4.21 | 0.349 | NA | 2.43 | 5.82 | 5.82 | 2,220,000 | 21,100,000 | 4.31 |
| 1929 | 0.3390 | 1.33 | NA | 4.82 | 0.125 | NA | 2.64 | 5.96 | 5.96 | 1,890,000 | 18,000,000 | 4.84 |
| 1930 | 0.2670 | 1.47 | NA | 4.33 | 0.056 | NA | 2.85 | 3.70 | 3.70 | 1,350,000 | 13,200,000 | 4.75 |
| 1931 | 0.2620 | 1.36 | NA | 4.03 | 0.075 | NA | 2.75 | 3.70 | 3.70 | 876,000 | 9,390,000 | 8.94 |
| 1932 | 0.0860 | 1.01 | NA | 1.74 | 0.689 | NA | 2.36 | 2.59 | 2.59 | 813,000 | 9,680,000 | 6.53 |
| 1933 | 0.0720 | 1.29 | NA | 5.04 | 0.778 | NA | 2.40 | 3.35 | 3.35 | 782,000 | 9,800,000 | 6.77 |
| 1934 | 0.148 | 1.36 | NA | 5.42 | 0.083 | NA | 2.61 | 2.98 | 2.98 | 767,000 | 9,330,000 | 12.9 |
| 1935 | 0.287 | 1.84 | NA | 5.11 | 0.163 | NA | 2.91 | 3.89 | 3.89 | 828,000 | 9,860,000 | 12.1 |
| 1936 | 0.304 | 2.06 | NA | 6.55 | 1.81 | NA | 3.23 | 5.13 | 5.13 | 916,000 | 10,700,000 | 14.2 |
| 1937 | 0.665 | 2.25 | NA | 6.44 | 1.94 | NA | 3.90 | 5.35 | 5.35 | 1,150,000 | 13,000,000 | 14.8 |
| 1938 | 1.500 | 2.00 | NA | 5.01 | 1.07 | NA | 3.67 | 3.96 | 3.96 | 871,000 | 10,100,000 | 16.8 |
| 1939 | 1.280 | 1.97 | NA | 9.54 | 1.57 | NA | 3.66 | 4.92 | 11.2 | 1,040,000 | 12,200,000 | 16.9 |
| 1940 | 1.380 | 2.07 | NA | 6.09 | 1.77 | NA | 8.39 | 6.40 | 6.40 | 945,000 | 11,000,000 | 14.5 |

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**U.S. GEOLOGICAL SURVEY**
**[All values in metric tons (t) PGM content unless otherwise noted]**
**Last modification: October 15, 2012**

| Year | Primary production | Secondary production | Secondary production toll-refined | Imports | Exports | Government stocks | Industry stocks | Reported consumption | Apparent consumption | Unit value ($/t) | Unit value (98$/t) | World production |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1941 | 1.020 | 1.60 | NA | 9.64 | 0.586 | NA | 10.0 | 8.37 | 10.1 | 741,000 | 8,220,000 | 14.9 |
| 1942 | 1.030 | 2.38 | NA | 9.80 | 3.23 | NA | 9.43 | 10.3 | 10.6 | 1,150,000 | 11,500,000 | 16.9 |
| 1943 | 1.170 | 3.16 | NA | 11.3 | 0.102 | NA | 10.0 | 15.8 | 15.8 | 971,000 | 9,160,000 | 19.6 |
| 1944 | 1.26 | 3.71 | NA | 11.1 | 0.269 | NA | 10.0 | 14.1 | 15.8 | 964,000 | 8,930,000 | 16.0 |
| 1945 | 0.967 | 2.99 | NA | 11.9 | 0.766 | NA | 9.39 | 17.1 | 15.7 | 971,000 | 8,830,000 | 30.0 |
| 1946 | 0.818 | 2.26 | NA | 12.9 | 0.826 | NA | 11.3 | 15.1 | 13.3 | 1,140,000 | 9,500,000 | 17.9 |
| 1947 | 0.542 | 2.71 | NA | 9.61 | 0.993 | NA | 10.5 | 12.1 | 12.7 | 1,230,000 | 8,980,000 | 15.6 |
| 1948 | 0.530 | 2.92 | NA | 8.48 | 1.29 | NA | 10.1 | 11.4 | 11.0 | 1,770,000 | 12,000,000 | 16.3 |
| 1949 | 0.772 | 2.60 | NA | 6.79 | 1.92 | NA | 9.21 | 8.98 | 9.14 | 1,750,000 | 12,000,000 | 17.9 |
| 1950 | 1.18 | 1.81 | NA | 13.3 | 1.57 | NA | 8.29 | 14.3 | 15.6 | 1,750,000 | 11,800,000 | 18.7 |
| 1951 | 1.15 | 1.66 | NA | 18.7 | 2.45 | NA | 9.76 | 14.4 | 17.6 | 1,940,000 | 12,100,000 | 21.0 |
| 1952 | 1.07 | 1.82 | NA | 14.1 | 0.738 | NA | 8.78 | 14.1 | 17.3 | 1,810,000 | 11,100,000 | 21.8 |
| 1953 | 0.811 | 2.02 | NA | 19.7 | 0.801 | NA | 8.70 | 16.6 | 21.8 | 2,000,000 | 12,200,000 | 24.1 |
| 1954 | 0.752 | 2.04 | NA | 18.9 | 0.885 | NA | 8.00 | 18.1 | 21.5 | 1,870,000 | 11,300,000 | 29.2 |
| 1955 | 0.721 | 2.00 | NA | 31.4 | 0.901 | NA | 15.6 | 26.5 | 25.6 | 1,530,000 | 9,330,000 | 33.9 |
| 1956 | 0.665 | 3.31 | NA | 32.2 | 1.31 | NA | 17.6 | 26.7 | 32.9 | 1,800,000 | 10,800,000 | 34.5 |
| 1957 | 0.576 | 2.72 | NA | 21.2 | 1.26 | NA | 15.8 | 23.1 | 25.0 | 1,690,000 | 9,830,000 | 41.1 |
| 1958 | 0.447 | 2.54 | NA | 20.9 | 1.47 | NA | 15.3 | 21.5 | 22.9 | 1,200,000 | 6,780,000 | 27.7 |
| 1959 | 0.482 | 4.23 | 16.7 | 31.0 | 0.977 | NA | 15.4 | 27.9 | 51.3 | 1,190,000 | 6,650,000 | 32.8 |
| 1960 | 0.734 | 2.39 | 23.7 | 21.2 | 2.03 | 49.6 | 16.0 | 24.1 | 45.4 | 1,610,000 | 8,850,000 | 39.7 |
| 1961 | 1.34 | 2.67 | 21.8 | 27.5 | 1.92 | 48.0 | 17.3 | 24.1 | 51.7 | 1,340,000 | 7,320,000 | 41.8 |
| 1962 | 0.890 | 4.11 | 27.8 | 22.4 | 1.88 | 49.3 | 18.6 | 27.0 | 50.7 | 1,460,000 | 7,890,000 | 50.5 |
| 1963 | 1.55 | 3.64 | 26.0 | 31.2 | 1.96 | 49.3 | 21.8 | 31.2 | 57.2 | 1,610,000 | 8,560,000 | 63.4 |
| 1964 | 1.26 | 3.74 | 31.1 | 27.5 | 4.55 | 43.4 | 23.9 | 34.8 | 62.9 | 1,840,000 | 9,680,000 | 79.2 |
| 1965 | 1.09 | 3.28 | 33.4 | 36.3 | 3.21 | 43.4 | 28.8 | 36.9 | 66.0 | 1,900,000 | 9,840,000 | 92.3 |
| 1966 | 1.60 | 3.21 | 49.5 | 42.1 | 6.39 | 45.8 | 35.3 | 52.1 | 81.1 | 1,980,000 | 9,950,000 | 94.5 |
| 1967 | 0.509 | 11.4 | 57.5 | 41.1 | 8.70 | 44.3 | 27.0 | 41.5 | 112 | 2,240,000 | 10,900,000 | 98.8 |
| 1968 | 0.460 | 10.3 | 64.7 | 55.2 | 12.3 | 48.8 | 25.0 | 42.5 | 116 | 2,280,000 | 10,700,000 | 106 |
| 1969 | 0.671 | 11.6 | 62.2 | 38.1 | 15.6 | 48.0 | 33.5 | 42.7 | 89.3 | 2,460,000 | 10,900,000 | 107 |
| 1970 | 0.539 | 10.9 | 45.1 | 47.6 | 13.0 | 55.7 | 22.1 | 40.3 | 94.3 | 2,390,000 | 10,000,000 | 132 |
| 1971 | 0.561 | 8.65 | 37.1 | 43.2 | 12.6 | 53.6 | 24.8 | 39.3 | 76.3 | 2,310,000 | 9,300,000 | 127 |
| 1972 | 0.532 | 7.95 | 39.7 | 57.1 | 16.5 | 53.6 | 28.9 | 48.6 | 84.7 | 2,520,000 | 9,830,000 | 133 |
| 1973 | 0.621 | 8.27 | 31.1 | 77.9 | 19.5 | 53.6 | 32.1 | 57.0 | 95.2 | 3,460,000 | 12,700,000 | 163 |
| 1974 | 0.394 | 10.1 | 33.2 | 101 | 26.0 | 53.6 | 34.9 | 61.6 | 116 | 4,990,000 | 16,500,000 | 179 |
| 1975 | 0.588 | 8.40 | 36.0 | 56.6 | 20.5 | 53.6 | 26.4 | 40.7 | 89.6 | 4,820,000 | 14,600,000 | 178 |
| 1976 | 0.190 | 6.70 | 26.7 | 83.0 | 15.9 | 53.6 | 33.8 | 51.1 | 93.3 | 3,510,000 | 10,100,000 | 194 |
| 1977 | 0.172 | 6.07 | 31.3 | 78.1 | 13.3 | 53.6 | 31.5 | 49.5 | 105 | 3,500,000 | 9,410,000 | 203 |
| 1978 | 0.256 | 8.00 | 31.8 | 90.9 | 21.9 | 53.6 | 26.8 | 70.3 | 114 | 4,950,000 | 12,400,000 | 200 |
| 1979 | 0.218 | 9.61 | 33.9 | 108 | 28.0 | 53.6 | 23.7 | 85.7 | 127 | 7,770,000 | 17,400,000 | 202 |
| 1980 | 0.093 | 10.3 | 33.6 | 109 | 23.8 | 53.6 | 30.3 | 68.6 | 123 | 10,800,000 | 21,400,000 | 213 |
| 1981 | 0.218 | 12.2 | 37.0 | 88.6 | 26.9 | 53.6 | 28.6 | 59.8 | 113 | 9,030,000 | 16,200,000 | 216 |

**PLATINUM-GROUP METALS STATISTICS[1]**
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| Year | Primary production | Secondary production | Secondary production toll-refined | Imports | Exports | Government stocks | Industry stocks | Reported consumption | Apparent consumption | Unit value ($/t) | Unit value (98$/t) | World production |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1982 | 0.249 | 10.6 | 27.0 | 77.6 | 26.0 | 53.9 | 34.9 | 58.3 | 82.8 | 7,140,000 | 12,100,000 | 200 |
| 1983 | 0.187 | 9.43 | 30.9 | 100 | 38.2 | 54.0 | 29.3 | 59.5 | 108 | 7,520,000 | 12,300,000 | 203 |
| 1984 | 0.467 | 10.6 | 36.0 | 139 | 36.1 | 54.3 | 41.0 | 68.4 | 138 | 8,030,000 | 12,600,000 | 238 |
| 1985 | W | 8.05 | 32.3 | 124 | 27.6 | 54.3 | 35.1 | 70.6 | 143 | 8,270,000 | 12,500,000 | 247 |
| 1986 | W | 11.0 | 35.9 | 139 | 23.3 | 54.3 | 40.2 | 64.7 | 158 | 9,670,000 | 14,400,000 | 260 |
| 1987 | 3.11 | 5.12 | 44.9 | 118 | 22.0 | 54.3 | 38.4 | 60.3 | 151 | 10,500,000 | 15,100,000 | 271 |
| 1988 | 4.97 | 4.79 | 46.4 | 124 | 28.8 | 54.3 | 35.5 | 71.0 | 154 | 10,800,000 | 14,900,000 | 280 |
| 1989 | 6.28 | 3.93 | 46.3 | 113 | 38.1 | 54.3 | 32.5 | 78.5 | 134 | 12,200,000 | 16,000,000 | 282 |
| 1990 | 7.74 | 5.82 | 65.4 | 125 | 55.0 | 54.3 | 30.3 | 77.5 | 151 | 15,200,000 | 19,000,000 | 291 |
| 1991 | 7.78 | 4.81 | 67.5 | 126 | 39.6 | 54.3 | 24.3 | 62.6 | 172 | 13,900,000 | 16,600,000 | 287 |
| 1992 | 7.74 | 5.33 | 59.0 | 132 | 57.8 | 54.3 | 26.9 | 66.8 | 144 | 11,200,000 | 13,000,000 | 280 |
| 1993 | 8.83 | 4.84 | 61.0 | 153 | 78.5 | 54.3 | 20.2 | 60.3 | 156 | 8,560,000 | 9,660,000 | 276 |
| 1994 | 8.40 | 3.00 | 60.0 | 171 | 88.6 | 54.3 | 8.70 | NA | 165 | 8,330,000 | 9,160,000 | 269 |
| 1995 | 6.85 | NA | 60.0 | 221 | 50.6 | 54.3 | 3.40 | NA | 243 | 7,200,000 | 7,700,000 | 326 |
| 1996 | 7.94 | NA | 60.0 | 256 | 48.8 | 54.3 | NA | NA | 275 | 8,390,000 | 8,720,000 | 324 |
| 1997 | 11.0 | NA | NA | 258 | 81.2 | 53.4 | NA | NA | 188 | 8,460,000 | 8,590,000 | 339 |
| 1998 | 13.8 | NA | NA | 302 | 59.3 | 36.0 | NA | NA | 257 | 10,200,000 | 10,200,000 | 354 |
| 1999 | 12.7 | NA | NA | 338 | 71.8 | 25.0 | NA | NA | 279 | 10,500,000 | 10,300,000 | 366 |
| 2000 | 13.4 | NA | NA | 318 | 93.2 | 20.8 | NA | NA | 238 | 18,000,000 | 17,000,000 | 364 |
| 2001 | 15.7 | NA | NA | 268 | 67.3 | 7.3 | NA | NA | 216 | 19,800,000 | 18,200,000 | 395 |
| 2002 | 19.1 | NA | NA | 222 | 70.9 | 7.3 | NA | NA | 170 | 9,620,000 | 8,710,000 | 414 |
| 2003 | 18.1 | NA | NA | 224 | 45.1 | 2.4 | NA | NA | 197 | 13,000,000 | 11,500,000 | 466 |
| 2004 | 17.4 | NA | NA | 249 | 52.3 | 1.7 | NA | NA | 213 | 14,500,000 | 12,500,000 | 472 |
| 2005 | 17.2 | NA | NA | 286 | 49.4 | 0.4 | NA | NA | 253 | 14,100,000 | 11,800,000 | 504 |
| 2006 | 18.7 | NA | NA | 288 | 104.0 | 0.4 | NA | NA | 203 | 21,100,000 | 17,100,000 | 515 |
| 2007 | 16.7 | NA | NA | 363 | 81.1 | 0.3 | NA | NA | 299 | 22,500,000 | 17,700,000 | 509 |
| 2008 | 15.5 | NA | NA | 336 | 50.4 | 0.3 | NA | NA | 301 | 22,900,000 | 12,100,000 | 468 |
| 2009 | 16.5 | NA | NA | 287 | 51.1 | 0.3 | NA | NA | 252 | 11,600,000 | 8,790,000 | 447 |
| 2010 | 15.1 | NA | NA | 253 | 61.0 | 0.3 | NA | NA | 207 | 18,500,000 | 13,400,000 | 466 |
| 2011 | 16.1 | NA | NA | 257 | 45.8 | 0.3 | NA | NA | 227 | 25,000,000 | 18,100,000 | 484 |

NA Not available. W Withheld to avoid disclosing company proprietary data.

[1]Compiled by T.D. Kelly (retired), H.E. Hilliard (retired), M.W. George, and P.J. Loferski.

Data are calculated, estimated, or reported. See notes for more information.

## Platinum-Group Metals Worksheet Notes

**Data Sources**
The sources of data for the platinum-group metals (PGM) worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR); Mineral Commodity Summaries (MCS); and Metal Prices in the United States through 1998 (MP98). The years of publication and corresponding years of data coverage are listed in the References section below.

**Primary Production**
Primary production reports the palladium, platinum, and small amounts of the other PGM (iridium, osmium, rhodium, and ruthenium) recovered from placer production and byproduct production from gold and copper smelting for 1900–87 in the United States. In 1988, palladium and platinum production from the Stillwater Mine in Nye, MT, were added to the total reported primary production. For 1990–2000, primary production reports only the mine production of palladium and platinum at the Stillwater Mine. Data are withheld for 1985 and 1986. For 1900–83, data are from the MR and MYB. For 1984–98, data are from the MCS. For 1999 to the most recent year, data are from the MYB.

**Secondary Production**
Secondary production reports the PGM recovered from scrap metal, sweeps, and other waste products. Substantial quantities of catalysts, spinnerets, and laboratory-ware are returned for refining or reworking. These metals are not included in secondary production. Data are from the MR and MYB for 1913–93. Data were not available for 1900–12 and 1994 to the most recent year.

**Secondary Production Toll-Refined**
The secondary production toll-refined category reports the depleted catalysts, worn-out extrusion dies, spinnerets, laboratory ware, and other used equipment that are sent to a refiner and/or fabricator for reworking. A toll is charged for this service. Data for 1960–65 and 1967–93 are reported in the MR and MYB. Data are not available for 1900–59, 1966, and 1994 to the most recent year.

**Imports**
Imports report the PGM in metal content imported for consumption into the United States. Data are from the MR and MYB. Data are not available for 1900–01 and 1904.

**Exports**
Exports report the PGM in metal content exported from the United States. Data are from the MR and MYB. Data are not available for 1900–10.

**Apparent Consumption**
For 1900–01, apparent consumption was extrapolated. For 1904, apparent consumption was interpolated. For 1902, 1903, 1905–34, 1939–78, and 1994 to the most recent year, apparent consumption for PGM was estimated with the formula:

APPARENT CONSUMPTION = PRIMARY PRODUCTION + SECONDARY PRODUCTION + IMPORTS ± (CHANGES IN GOVERNMENT STOCKS) ± (CHANGES IN INDUSTRY STOCKS) – EXPORTS.

When using the equation, exports were assumed zero for 1900–12. For 1900–58, and 1997 to the most recent year, secondary production, toll-refined data were not included. For 1900–12 and 1995 to the most recent year, secondary production data were not included. Apparent consumption data for 1935–38 and 1979–93 are reported in the MYB.

**Reported Consumption**
Reported consumption is from the MR and MYB for 1918–93. Reported consumption is PGM “sold to industry.” Data are not available after 1993.

**Unit Value ($/t)**
Unit value of PGM reports the value of 1 metric ton (t) of PGM apparent consumption. For 1918–94, unit value is estimated by weight averaging the amount of each metal sold to industry (from the MR and MYB) with price series for the metals from MP98. For 1902–03 and 1905–17, unit value was estimated with the average value of imports. For 1900–01 and 1904, production value was used to estimate unit value. A complete weight average of all six PGM is possible for 1957–94, because the reported consumption is given for all six metals during this period. For 1938–56, the reported consumption is published for palladium, platinum, and other PGM. For 1918–37, the reported consumption is published for iridium, palladium, platinum, and other PGM. However, a graphical comparison of $/t for imports and $/t for the weight-averaged values demonstrates a close overlap. This is because in the earlier years (prior to 1957) palladium and platinum were the primary metals consumed. For 1900–01 and 1904, using the production value to estimate unit value for years when import value was not available is a good estimate for the same reason. A graphical comparison of $/t for production and $/t for imports demonstrates a close overlap. For 1994–97, unit value was estimated by weight averaging the amounts of refined metals (palladium, platinum, iridium, ruthenium, and rhodium) imported with prices from the MYB. For 1998 to the most recent year, unit value was estimated using the value of imports.

**Unit Value (98$/t)**
The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

**World Production**
World production of PGM is from the MR and MYB for 1900 to the most recent year.

**References**
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U.S. Geological Survey, 1999, Metal Prices in the United States through 1998.
U.S. Geological Survey and U.S. Bureau of Mines, 1996, Mineral Commodity Summaries, 1996.

**Recommended Citation Format:**
U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, *in* Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, accessed [date], at http://pubs.usgs.gov/ds/2005/140/.

**For more information, please contact:**

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